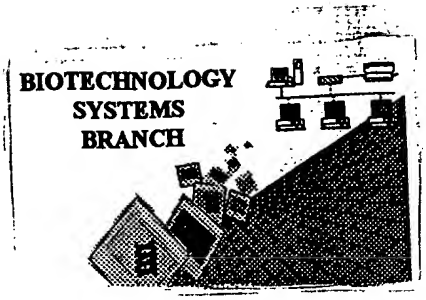
Brannock



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/535,814C
Source: 1600 RUSH
Date Processed by STIC: 6/10/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom:
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/535,814C

DATE: 06/10/2002
TIME: 15:44:48

Input Set : A:\EP.txt
Output Set: N:\CRF3\06102002\I535814C.raw

Does Not Comply
Corrected Diskette Needed

See following page

C--> 6 <140> CURRENT APPLICATION NUMBER: US/09/535,814C
C--> 6 <141> CURRENT FILING DATE: 2000-03-28
W--> 0 <110> APPLICANT:
W--> 0 <120> TITLE INVENTION:
W--> 0 <130> FILE REFERENCE:
E--> 6 <160> NUMBER OF SEQ ID NOS: NUMBER OF SEQ ID NOS: 3

ERRORED SEQUENCES

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9 <211> LENGTH: LENGTH: 313
E--> 10 <212> TYPE: TYPE: PRT
11 <213> ORGANISM: ORGANISM: Canis familiaris
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16 1 5 10 15
18 Gly Leu Pro Ile Asp Pro Asp Gln Arg Asp Leu Phe Tyr Ala Leu
E--> 19 16 20 25 30
21 Phe Leu Ala Met Tyr Val Thr Thr Ile Leu Gly Asn Leu Leu Ile
E--> 22 31 35 40 45
24 Ile Val Leu Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr
E--> 25 46 50 55 60
27 Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser
E--> 28 61 65 70 75
30 Val Thr Met Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro
E--> 31 76 80 85 90
33 Ser Ile Pro Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Phe Leu
E--> 34 91 95 100 105
36 Phe Phe Gly Asp Leu Glu Ser Phe Leu Leu Val Ala Met Ala Tyr
E--> 37 106 110 115 120
39 Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His Tyr Thr Thr Ile
E--> 40 121 125 130 135
42 Met Ser Pro Lys Leu Cys Phe Ser Leu Leu Val Leu Ser Trp Val
E--> 43 136 140 145 150
45 Leu Thr Met Phe His Ala Val Leu His Thr Leu Leu Met Ala Arg
E--> 46 151 155 160 165
48 Leu Cys Phe Cys Ala Asn Thr Ile Pro His Phe Phe Cys Asp Met
E--> 49 166 170 175 180
51 Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr Gln Val Asn Glu
E--> 52 181 185 190 195
54 Leu Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe
E--> 55 196 200 205 210

delete
~~SEQUENCE LISTING~~

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delete
<160> ~~NUMBER OF SEQ ID NOS:~~ 3

show only numeric identifiers and their responses (do not show alphabetical headings)

<210> ~~SEQ ID NO~~ 1
<211> ~~LENGTH:~~ 313
<212> ~~TYPE:~~ PRT
<213> ~~ORGANISM:~~ Canis familiaris

<400> ~~SEQUENCE:~~ 1

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Met Thr Glu Lys Asn Gln Thr Val Val Ser Glu Phe Val Leu Leu
  1               5                  10                  15

Gly Leu Pro Ile Asp Pro Asp Gln Arg Asp Leu Phe Tyr Ala Leu
 16              20                  25                  30

Phe Leu Ala Met Tyr Val Thr Thr Ile Leu Gly Asn Leu Leu Ile
 31              35                  40                  45

Ile Val Leu Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr
 46              50                  55                  60

Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser
 61              65                  70                  75

Val Thr Met Pro Lys Leu Leu Gln Asn Met Gln Ser Gln Val Pro
 76              80                  85                  90

Ser Ile Pro Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Phe Leu
 91              95                 100                 105

Phe Phe Gly Asp Leu Glu Ser Phe Leu Leu Val Ala Met Ala Tyr
106             110                 115                 120

Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His Tyr Thr Thr Ile
121             125                 130                 135

Met Ser Pro Lys Leu Cys Phe Ser Leu Leu Val Leu Ser Trp Val
136             140                 145                 150

Leu Thr Met Phe His Ala Val Leu His Thr Leu Leu Met Ala Arg
151             155                 160                 165

Leu Cys Phe Cys Ala Asn Thr Ile Pro His Phe Phe Cys Asp Met
166             170                 175                 180

Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr Gln Val Asn Glu
181             185                 190                 195

Leu Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe
196             200                 205                 210

Leu Leu Ile Ile Thr Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu
211             215                 220                 225

Lys Val Pro Ser Ala Ile Gly Ile Cys Lys Val Phe Ser Thr Cys
226             230                 235                 240
```

```
Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile
241             245                 250                 255

Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu
256             260                 265                 270

Thr Ile Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn
271             275                 280                 285

Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu
286             290                 295                 300

Arg Arg Val Ile Cys Arg Lys Lys Ile Thr Phe Ser Val
301             305                 310
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<210> ~~SEQ ID NO~~ 2
<211> ~~LENGTH:~~ 7
<212> ~~TYPE:~~ PRT
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<400> ~~SEQUENCE:~~ 2

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 1               5
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<210> ~~SEQ ID NO~~ 3
<211> ~~LENGTH:~~ 13
<212> ~~TYPE:~~ PRT
<213> ~~ORGANISM:~~ Canis familiaris

<400> ~~SEQUENCE:~~ 3

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Leu Phe Leu Ser Asn Leu Ser Phe Ser Asp Leu Cys Ala
 1               5                  10
```

Please consult sample Sequence Listing (attached) for valid format

<110> Smith, John; Smithgene Inc.

<120> Example of a Sequence Listing

<130> 01-00001

<140> PCT/EP98/00001
<141> 1998-12-31

<150> US 08/999,999
<151> 1997-10-15

<160> 4

<170> PatentIn version 2.0

<210> 1
<211> 389
<212> DNA
<213> Paramecium sp.

<220>
<221> CDS
<222> (279)...(389)

<300>
<301> Doe, Richard
<302> Isolation and Characterization of a Gene Encoding a Protease from Paramecium sp.
<303> Journal of Genes
<304> 1
<305> 4
<306> 1-7
<307> 1988-06-31
<308> 123456
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<400> 1

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tgatgtggca attgctggca gtgccacagg cttttcagcc aggcttaggg tgggttccgc 180

cgcggcgcgg cggccccctc cgcgctcctc tcgcgcctct ctctcgctct cctctcgctc 240

Please consult

Appendix 3, page 2

```
ggacctgatt  aggtgagcag  gaggaggggg  cagttagc      atg  gtt  tca  atg  ttc  agc   296
                                                  Met  Val  Ser  Met  Phe  Ser
                                                   1                   5

ttg  tct  ttc  aaa  tgg  cct  gga  ttt  tgt  ttg  ttt  gtt  tgt  ttg  ttc  caa   344
Leu  Ser  Phe  Lys  Trp  Pro  Gly  Phe  Cys  Leu  Phe  Val  Cys  Leu  Phe  Gln
                10                       15                  20

tgt  ccc  aaa  gtc  ctc  ccc  tgt  cac  tca  tca  ctg  cag  ccg  aat  ctt        389
Cys  Pro  Lys  Val  Leu  Pro  Cys  His  Ser  Ser  Leu  Gln  Pro  Asn  Leu
          25                       30                  35
```

<210> 2
<211> 37
<212> PRT
<213> Paramecium sp.

<400> 2

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Met  Val  Ser  Met  Phe  Ser  Leu  Ser  Phe  Lys  Trp  Pro  Gly  Phe  Cys  Leu
 1               5                       10                  15

Phe  Val  Cys  Leu  Phe  Gln  Cys  Pro  Lys  Val  Leu  Pro  Cys  His  Ser  Ser
            20                       25                  30

Leu  Gln  Pro  Asn  Leu
          35
```

<210> 3
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Designed peptide based on size and polarity to act as a linker between the alpha and beta chains of Protein XYZ.

<400> 3

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 1               5                       10
```

<210> 4
<400> 4
000

[Annex VIII follows]

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

Numeric Identifier	Definition	Comments and Format	Mandatory (M) or Optional (O)
<110>	Applicant	Preferably max. of 10 names; one name per line; preferable format: Surname, Other Names and/or Initials	M
<120>	Title of Invention		M
<130>	File Reference	Personal file reference	M, when filed prior to assignment of appl. number
<140>	Current Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if available
<141>	Current Filing Date	Specify as: yyyy-mm-dd	M, if available
<150>	Prior Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if applicable include priority documents under 35 USC 119 and 120
<151>	Prior Application Filing Date	Specify as: yyyy-mm-dd	M, if applicable
<160>	Number of SEQ ID NOs	Count includes total number of SEQ ID NOs	M
<170>	Software	Name of software used to create the Sequence Listing	O
<210>	SEQ ID NO:#:	Response shall be an integer representing the SEQ ID NO shown	M
<211>	Length	Respond with an integer expressing the number of bases or amino acid residues	M

<212>	Type	Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide sequence contains both DNA and RNA fragments, the type shall be "DNA." In addition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section.	
<213>	Organism	Scientific name, i.e. Genus/species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220> to <223> feature section.	M
<220>	Feature	Leave blank after <220>. <221-223> provide for a description of points of biological significance in the sequence.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
<221>	Name/Key	Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence
<222>	Location	Specify location within sequence; where appropriate state number of first and last bases/amino acids	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified

			in feature	[redacted] was used in a sequence
<223>	Other Information	Other relevant information; four lines maximum		M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA
<300>	Publication Information	Leave blank after <300>		O
<301>	Authors	Preferably max of ten named authors of publication; specify one name per line; preferable format: Surname, Other Names and/or Initials		O
<302>	Title			O
<303>	Journal			O
<304>	Volume			O
<305>	Issue			O
<306>	Pages			O
<307>	Date	Journal date on which data published; specify as yyyy-mm-dd, MMM-yyyy or Season-yyyy		O
<308>	Database Accession Number	Accession number assigned by database including database name		O
<309>	Database Entry Date	Date of entry in database; specify as yyyy-mm-dd or MMM-yyyy		O
<310>	Patent Document Number	Document number; for patent-type citations only. Specify as, for example, US 07/999,999		O

<311>	Patent Fil Date	Document filing date, for patent-type citations only; specify as yyyy-mm-dd	O
<312>	Publication Date	Document publication date, for patent-type citations only; specify as yyyy-mm-dd	O
<313>	Relevant Residues	FROM (position) TO (position)	O
<400>	Sequence	SEQ ID NO should follow the numeric identifier and should appear on the line preceding the actual sequence	M

5. Section 1.824 is revised to read as follows:

1.824 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by 1.821(c) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;